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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/617,146	07/10/2003	Anca Faur-Ghenciu	GP-302809	1398
23368 DINSMORE A	7590 05/28/200 E SHOHL LLP	08	EXAM	MINER
ONE DAYTON CENTRE, ONE SOUTH MAIN STREET		HANDAL	HANDAL, KAITY V	
SUITE 1300 DAYTON, OF	I 45402-2023		ART UNIT	PAPER NUMBER
			1795	•
			MAIL DATE	DELIVERY MODE
			05/28/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/617,146 FAUR-GHENCIU ET AL. Office Action Summary Examiner Art Unit KAITY V. HANDAL 1795 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 17 March 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-61 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-61 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (FTO/S5/0E)
 Paper No(s)/Mail Date ________

Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.

6) Other:

5) Notice of Informal Patent Application

Page 2

Application/Control Number: 10/617,146

Art Unit: 1795

DETAILED ACTION

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claim 1-61 are rejected under 35 U.S.C. 103(a) as obvious over Silver (US 6,455,182 B1) in view of Nunan (US 6,040,265).

With respect to claims 1-2, 4, 12-13, 15-16, 24-25, 27-29, 36-37, 42, 44-45, 50-51, 53-55, 59-60, Silver teaches placing a high activity water gas shift catalyst system into a water gas shift converter and passing the process fuel gas through the water gas shift converter in effective contact with the high activity water gas shift catalyst system (Ceria based catalyst) and converting a portion of the carbon monoxide in the process fuel gas into carbon dioxide and hydrogen by a water gas shift reaction (Abstract). Silver however does not provide details the presence of promoters and does not disclose the claimed weight percentages of cerium oxide and zirconium oxide. Nunan teaches an apparatus for reducing an amount of carbon monoxide in process gas wherein the catalyst is a ceria based catalyst which promotes water gas shift reactions (col. 1, lines 43-56), the catalyst system comprising a noble metal/(Pt or Pd) (col. 10, line 65); a mixed metal oxide support consisting essentially of cerium oxide and zirconium oxide, wherein cerium oxide is

Application/Control Number: 10/617,146

Art Unit: 1795

present in an amount from about 45% to about 90% by weight of mixed metal oxide and zirconium/lanthanum oxide is present in amount from about 10% to 55% by weight of mixed metal oxide (col. 10, lines 64 col. 11, lines 1-5), and a promoter comprising Yttrium (col. 11, line 7) in order to enhance the Ce or Zr promotional effect on catalyst performance in CO and NOx oxidation (col. 20, lines 45-50).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to replace the catalyst of Silver with the catalyst composition taught by Nunan in order to provide an enhanced Ce or Zr promotional effect on catalyst performance in CO and NOx oxidation.

With respect to claims 3, 14, 26, 38, 46, 56, Nunan further teaches wherein the noble metal/(group VIII) is present in an amount of between about 0.01% to about 4% by weight of total catalyst (col. 13, lines 40-43).

With respect to claims 5, 17, 30, 43, 52, 61, Nunan further teaches wherein the promoter is present in an amount of between 1% and about 20% by weight of total catalyst (col. 14, lines 23-25).

With respect to claims 6-7, 18-19, 31, 39-40, 47-48, 57, Nunan further teaches wherein the mixed metal oxide support further comprises a support dopant/(additional promoter) selected from lanthanum (col. 14, lines 8-15).

With respect to claims 8, 20, 32, Nunan further teaches wherein the support dopant/(additional promoter) is in the form of a metal oxide (col. 14, lines 8-21).

Application/Control Number: 10/617,146
Art Unit: 1795

With respect to claims 9, 21, 33, 41, 49, 58, Nunan further teaches wherein the support dopant/(additional promoter) is present in an amount of between about 1% and about 20% by weight of mixed metal oxide (col. 14, lines 8-25).

With respect to claim 10-11, 22-23, 34-35, Nunan further teaches wherein the process fuel gas passes through the water gas shift at a temperature of about 225°C (col. 15, lines 53-57).

If the options in the Nunan as to the various catalyst/promoter/dopant material groups appear non-anticipatory, then it is deemed obvious to one having skill in the art to choose from these options.

Response to Arguments

The 1.131 Declaration presented by applicants is not acceptable as it is not commensurate in scope with the instant claims. The catalyst samples prepared and tested as shown in Exhibit E fail to include a catalyst composition equivalent to the one claimed. In particular, there is no one catalyst composition which includes having a noble metal plus either a Cerium Oxide or a Zirconium Oxide plus Yttrium or an Alkali or Alkaline metal (all in claim 1) plus a support dopant selected from lanthanum, praseodymium, neodymium, or combinations thereof (as in claim 7).

Therefore, the Declaration does not overcome the prior art of record and therefore the rejection is maintained as set forth above.

Page 5

Application/Control Number: 10/617,146

Art Unit: 1795

Conclusion

 THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KAITY V. HANDAL whose telephone number is (571)272-8520. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alexa Neckel can be reached on (571) 272-1446. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/617,146 Page 6

Art Unit: 1795

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/K. V. H./ Examiner, Art Unit 1795

5/19/2008

/Alexa D. Neckel/ Supervisory Patent Examiner, Art Unit 1795

Search Notes



Application/Control No.	Applicant(s)/Patent under Reexamination

1795

10/617,146 Examiner

FAUR-GHENCIU ET AL.

KAITY V. HANDAL

Art Unit

SEARCHED				
Class	Subclass	Date	Examiner	
Updated	Search	5/15/2008	КН	

Class	Subclass	Date	Examiner
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SEARCH NOTES (INCLUDING SEARCH STRATEGY)			
	DATE	EXMR	
Updated Inventorship Search	5/15/2008	кн	
Updated Key Word Search	5/15/2008	КН	